

CLAIMS

1. A pet potty, comprising:
 - a frame having a plurality of coupling recesses formed at an inner periphery
 - 5 defining an open central portion of the frame, and a driving motor installed in the frame to be driven by electric power from a power source;
 - a plurality of floor members each of which has coupling bars formed at both sides thereof, the coupling bars being pivotally coupled to the respective coupling recesses;
 - a driving mechanism installed within a portion of at least one side of the frame so
 - 10 as to rotate the floor members by means of a manual operation or the driving motor;
 - an excrement tray detachably installed below the frame and the floor members;
 - and
 - a sensor installed in the frame to detect a pet,
 - wherein if the sensor detects stay of the pet on the frame for a predetermined
 - 15 period of time, the driving motor runs to rotate the floor members.
2. The pet potty as claimed in claim 1, wherein a gear is mounted on the coupling bar at one side of each of the floor members, and the driving mechanism includes a plurality of idle gears alternately engaged with the gears of the plurality of the floor members so as to
- 20 rotate the plurality of floor members at a time.
3. The pet potty as claimed in claim 1, wherein a gear is mounted on the coupling bar at one side of each of the floor members, and the driving mechanism includes a rack engaged with the gears of the plurality of the floor members so as to rotate the plurality of
- 25 floor members at a time.
4. The pet potty as claimed in claim 2 or 3, wherein the driving mechanism rotates the floor members by an angle within a range of 90 to 360 degrees.
- 30 5. The pet potty as claimed in claim 1, wherein a melody speaker is provided at the

frame.

6. The pet potty as claimed in claim 1, wherein the sensor is selected from a group comprising an acoustic sensor, an infrared sensor, a weight detector and an RF sensor.

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7. The pet potty as claimed in claim 1, wherein a pivot bar is formed on at least one side of each of the floor members such that the pivot bar extends at a predetermined angle with respect to a surface of each of the floor members, and the driving mechanism includes a guide bar that is coupled to the driving motor by means of a rack and pinion structure and
10 formed with a plurality of protrusions, whereby the pivot bars are engaged with the protrusions of the guide bar and translation of the guide bar causes the floor members to rotate.

8. The pet potty as claimed in claim 1, wherein the frame is formed with a plurality
15 of vents through which ozone and negative ions are generated, and a dust collecting plate is installed at the inside of the vents.

9. The pet potty as claimed in claim 1, wherein a control unit is mounted on the frame, and the control unit is provided with a power switch, a reset button and a power
20 supply terminal at the exterior thereof and with a control board, a reversible motor and a motor bracket sequentially installed at the interior thereof.

10. The pet potty as claimed in claim 1, wherein each of the floor members has a grate structure.

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11. The pet potty as claimed in claim 1, wherein the frame comprises a lower frame to which the excrement tray is slidably mounted and the driving mechanism is installed, and a coupling frame coupled to the lower frame so as to define the coupling recesses in which the coupling bars of the floor members are inserted.

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